



## Safety Data Sheet

# TIGER MICRONUTRIENTS® Corn Mix II + B

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	TIGER MICRONUTRIENTS® Corn Mix II + B
<b>Other Means of Identification</b>	Micronutrient Blend Corn Mix Sulphur with Boron
<b>Recommended Use</b>	Plant nutrient fertilizer.
<b>Restrictions on Use</b>	Always follow safe handling practices.
<b>Manufacturer/Supplier Identifier</b>	Tiger-Sul Products LLC -Hwy 31 West Industrial Park P.O. Box 5; Atmore, AL; 36504, USA., Tiger-Sul Products LLC -61 Stork Rd; Stockton, CA; 95203, USA. Tiger-Sul (Canada) Co, -275137 Range Road 263 P.O. Box 126; Irricana, AB; T0M 1B0, Canada.
<b>Emergency Phone No.</b>	CHEMTREC, (800) 424-9300 -24 hrs Stockton Toll free, (877) 299-3399 Irricana Toll free, (877) 299-3399 Atmore Toll free, (800) 239-3647

### SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

#### Classification

Combustible dust - Category 1; Acute toxicity (Dermal) - Category 4; Skin irritation - Category 2; Eye irritation - Category 2A; Skin sensitization - Category 1B; Carcinogenicity - Category 1A

#### Label Elements



#### Danger

May form combustible dust concentrations in air.  
May cause cancer.  
Causes skin and eye irritation.  
May be harmful if swallowed, in contact with skin or if inhaled.

#### Other Hazards

None known.

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Date of Preparation:	June 26, 2019
Date of Last Revision:	March 1, 2024

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
SULFUR	7704-34-9	70.0 – 72.0	EU EINECS/ELINCS Number: 231-722-6	S
ZINC OXIDE	1314-13-2	12.2 – 13.0	EU EINECS/ELINCS Number: 215-222-5	ZnO
BENTONITE	1302-78-9	9.90 – 10.5	EU EINECS/ELINCS Number: 215-108-5	CLAY
SODIUM TETRABORATE	1330-43-4	4.60 – 4.95	EU EINECS/ELINCS Number: 215-540-4	B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub>
SILICA QUARTZ	14808-60-7	0.50 - 0.58	EU EINECS/ELINCS Number: 238-878-4	SiO <sub>2</sub>

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Take precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment).

##### Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary.

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts).

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes.

##### Eye Contact

Wear eye protection to avoid dust getting into eyes.

If contact and irritation occurs

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open.

Remove contact lenses, if present and easy to do.

##### Ingestion

Get medical advice or attention if you feel unwell or are concerned.

##### First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

#### Most Important Symptoms and Effects, Acute and Delayed

If in eyes: may cause moderate to severe irritation. Symptoms include sore, red eyes, and tearing.

If on skin: may cause mild to moderate irritation

If inhaled: repeated or long term inhalation can cause respiratory problems (SILICA, QUARTZ).

#### Immediate Medical Attention and Special Treatment

**Target Organs** None known.

**Special Instructions** Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

##### Suitable Extinguishing Media

Water spray or fog is preferred. If water is not available, use Carbon dioxide, dry chemical powder or appropriate foam. Small fires may be smothered with sand.

##### Unsuitable Extinguishing Media

Avoid scattering spilled material with high pressure water streams.

#### Specific Hazards Arising from the Product

Combustible dust. May form combustible dust concentration in air. Combustion products include Sulphur Dioxide and Hydrogen Sulphide.

#### Special Protective Equipment and Precautions for Fire-fighters

Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

Hydrogen Sulphide is heavier than air and may collect in low lying areas and confined spaces.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### Environmental Precautions

Prevent uncontrolled release to the environment.

### Methods and Materials for Containment and Cleaning Up

Avoid generating dust.

Avoid dry sweeping.

If necessary, use a dust suppressant such as water.

Do not use compressed air for clean-up.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid breathing in this product.

Avoid repeated or prolonged skin contact.

Do not get in eyes.

### Conditions for Safe Storage

Store in an area that is: cool, well-ventilated, out of direct sunlight and away from heat and ignition sources.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
SULFUR	10 mg/m <sup>3</sup>	N.AV	15 mg/m <sup>3</sup>	N.AV	N.AV	N.AV
BENTONITE	1 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	N.AV	N.AV	N.AV	N.AV
ZINC OXIDE	2 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	N.AV	N.AV	N.AV
SILICA QUARTZ	0.025 mg/m <sup>3</sup>	N.AV	10 mg/m <sup>3</sup>	N.AV	N.AV	N.AV
SODIUM TETRABORATE	2 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	N.AV	N.AV	N.AV

### Appropriate Engineering Controls

Do not allow product to accumulate in the air in work or storage areas, or in confined spaces.

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

Provide eyewash in work area, if contact or splash hazard exists.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles.

#### Skin Protection

Wear long sleeved clothing and impervious gloves.

#### Respiratory Protection

For non-routine or emergency situations: wear a NIOSH approved self-contained breathing apparatus (SCBA) or supplied air respirator.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	Grey - brown pastilles. Particle Size: 280 SGN
<b>Odour</b>	Not applicable
<b>Odour Threshold</b>	Not applicable
<b>pH</b>	Not available
<b>Melting Point/Freezing Point</b>	115 °C (239 °F) (SULFUR) (melting); Not applicable
<b>Initial Boiling Point/Range</b>	(freezing) Not available
<b>Flash Point</b>	207 °C (405 °F) (closed cup) (SULFUR)
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Flammable solid. (SULFUR)
<b>Upper/Lower Flammability or Explosive Limit</b>	0.14% (SULFUR) (upper); 0.0035% (SULFUR) (lower)
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density (air = 1)</b>	Not applicable
<b>Relative Density (water = 1)</b>	Not applicable
<b>Solubility</b>	Insoluble in water; Not available (in other liquids)
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not applicable
<b>Auto-ignition Temperature</b>	232 °C (450 °F) (SULFUR)
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not applicable (kinematic); Not applicable (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Solid
<b>Bulk Density</b>	83 lb/ft <sup>3</sup> (estimate)

## SECTION 10. STABILITY AND REACTIVITY

**Reactivity** Not reactive under normal conditions of use.

**Chemical Stability** Normally stable.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use. Reacts in the presence of high energy sources (e.g. welding arcs). Dust may cause a fire or explosion.

### Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources.

### Incompatible Materials

Oxidizing agents (e.g. peroxides), strong acids (e.g. hydrochloric acid).

### Hazardous Decomposition Products

Sulphur Dioxide; Hydrogen Sulfide.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Inhalation; skin contact; eye contact.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
SULFUR	> 0.047 mg/L (rat) (4-hour exposure)	> 5000 mg/kg (rat)	N.AV
BENTONITE	N.AV	5000 mg/kg (rat)	N.AV
SILICA QUARTZ	N.AV	500 mg/kg (rat)	N.AV
ZINC OXIDE	2500 mg/m <sup>3</sup> (mouse)	7950 mg/kg (mouse)	N.AV
SODIUM TETRABORATE	N.AV.	1660-2500 mg/kg (rat)	> 2000 mg/kg (rabbit)

### Skin Corrosion/Irritation

May cause irritation to skin, eyes and respiratory tract.

### Serious Eye Damage/Irritation

Can cause serious eye irritation.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

May cause nose and throat irritation.

#### Skin Absorption

May cause skin to become sensitive to sunlight (ultraviolet light).

#### Ingestion

May be harmful If large amounts are swallowed symptoms may include nausea, vomiting, stomach cramps and diarrhea.

**Aspiration Hazard** No information was located.

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

If inhaled: lung injury, irritation of the respiratory system. May cause respiratory tract injury.

#### Respiratory and/or Skin Sensitization

May cause an allergic reaction (skin sensitization) based on limited evidence.

#### Carcinogenicity

If inhaled: lung cancer. A1 – Confirmed human carcinogen. (SILICA QUARTZ)

### Reproductive Toxicity

**Development of Offspring** No information was located.

**Sexual Function and Fertility** No information was located.

**Effects on or via Lactation** No information was located.

**Germ Cell Mutagenicity** No information was located.

**Interactive Effects** No information was located.

## SECTION 12. ECOLOGICAL INFORMATION

Avoid uncontrolled release.

### Ecotoxicity

#### Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
SULFUR	< 14 mg/L (Lepomis macrochirus (bluegill); 96-hour; fresh water; static)	> 5000 mg/L (Daphnia magna (water flea); 48-hour; fresh water; static)	N.AV	N.AV
BENTONITE	19000 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour; fresh water; static)	N.AV	N.AV	N.AV
ZINC OXIDE	0.14 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour; fresh water)	0.07 mg/L (Daphnia magna (water flea); 48-hour; fresh water)	N.AV	N.AV
SODIUM TETRABORATE	80 mg/L (Pimephales promelas (fathead minnow); fresh water)	N.AV	N.AV	28 mg/L (Selenastrum capricornutum (algae); fresh water)

### Persistence and Degradability

No ingredient of this product or its degradation products is known to be highly persistent.

### Bioaccumulative Potential

This product and its degradation products are not known to bioaccumulate.

### Mobility in Soil

If released into the environment, this product is expected to move slowly through the soil, based on physical and chemical properties.

**Other Adverse Effects** There is no information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations.

## SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

**Environmental Hazards** Not applicable

**Special Precautions** Not applicable

### Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

#### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

#### USA

#### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

#### Additional USA Regulatory Lists

SARA Title III - Section 313: Listed Reportable Product > 1% Zn.

Listed Pennsylvania Right to Know. (SULFUR). (SILICA QUARTZ).

**⚠️ WARNING:** This product can expose you to chemicals including crystalline silica, which is known to the State of California to cause cancer when inhaled. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## SECTION 16. OTHER INFORMATION

NFPA Rating                      Health - 1          Flammability - 1          Instability - 0

SDS Prepared By	Tiger-Sul
Phone No.	(877) 299-3399
Date of Preparation	June 26, 2019
Date of Last Revision	March 1, 2024

**Key to Abbreviations**  
ACGIH® = American Conference of Governmental Industrial Hygienists  
NFPA = National Fire Protection Association  
NIOSH = National Institute for Occupational Safety and Health  
OSHA = US Occupational Safety and Health Administration

**Disclaimer**  
This Safety Data Sheet is offered solely for information, consideration, and investigation purposes. It is not to be construed as recommending any practice or product in violation of any law or regulation. The user is responsible to determine the suitability of the material for use and practice necessary safety precautions. The information presented has been compiled from sources considered to be dependable and is reliable to the best of our knowledge and is not to be considered as a warranty or quality specification.